## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 30 June 2005 (30.06.2005)

**PCT** 

## (10) International Publication Number WO 2005/059084 A1

- (51) International Patent Classification<sup>7</sup>: C12C 5/00, A23K 1/00, 1/165, C12C 7/16, 7/04, C12N 9/42
- (21) International Application Number:

PCT/DK2004/000880

(22) International Filing Date:

17 December 2004 (17.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA 2003 01895 19 December 2003 (19.12.2003) DK

- (71) Applicant (for all designated States except US): NOVOZYMES A/S [DK/DK]; Krogshoejvej 36, DK-2880 Bagsvaerd (DK).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FESTERSEN, Rikke, Monica, [DK/DK]; Nansensgade 75 A, 2. th., DK-1366 Copenhagen K (DK). VIKSOE-NIELSEN, Anders [DK/DK]; Lindevej, 12, Joerlunde, DK-3550 Slangerup (DK). JOERGENSEN, Christel, Thea, [DK/DK]; Fuglevadsvej 10, DK-2880 Kgs. Lyngby (DK). CHRISTENSEN, Lars, Lehmann, Hylling, [DK/DK]; Sandholmgaardsvej 49, DK-3450 Alleroed (DK).

- (74) Common Representative: NOVOZYMES A/S; Patents, Krogshoejvej 36, DK-2880 Bagsvaerd (DK).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MASHING PROCESS

(57) Abstract: The present invention relates to a mashing and filtration step in a brewing process and to a composition useful in the mashing and filtration step of a brewing process. The mash is prepared in the presence of enzyme activities comprising a xylanase of GH family 10.